

INFORMATION CONCERNING

# Some of the Principal Navies

OF THE WORLD

A SERIES OF TABLES COMPILED TO  
ANSWER POPULAR INQUIRY



Office of Naval Intelligence  
April, 1911

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GOVERNMENT PRINTING OFFICE  
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## PREFACE.

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The Navy Department is so frequently in receipt of letters from all parts of the country requesting information for debating societies, journals, and periodicals, as well as individuals, concerning the relative strengths of the principal naval powers, the types of vessels building or built, and facts concerning the type of battleship popularly known as *Dreadnought*, that it has directed the Office of Naval Intelligence to prepare tables which will substantially make reply to the greater part of such letters.

Under these instructions the Office of Naval Intelligence has compiled the following tables from such data as may have been made public in the several countries enumerated therein; and while these tables may be regarded as substantially correct, it is possible that inaccuracies may occur, for the reason that few countries beside the United States publish all the data concerning their fighting strength.

Tables I, II, III, IV, and V were compiled March 1, 1911, and are here reproduced, as they remain substantially correct and are sufficiently accurate for the purpose of this publication.

T. M. POTTS,

*Captain, U. S. Navy, Chief Intelligence Officer.*

OFFICE OF NAVAL INTELLIGENCE

NAVY DEPARTMENT, *April, 1911.*





TABLE I.

## WARSHIP TONNAGE OF THE PRINCIPAL NAVAL POWERS.

NUMBER AND DISPLACEMENT OF WARSHIPS, BUILT AND BUILDING, OF 1,000 OR MORE TONS, AND OF TORPEDO CRAFT OF MORE THAN 50 TONS.

[Dec. 1, 1911]

TYPE OF VESSEL	GREAT BRITAIN		GERMANY				UNITED STATES				FRANCE				JAPAN				RUSSIA				ITALY				AUSTRIA			
	Built.		Building		Built.		Building		Built.		Building		Built.		Building		Built.		Building		Built.		Building		Built.		Building			
	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons	Number.	Tons		
Battleships * (Dreadnought type) . . . . .	12	236,320	10	217,100	7	141,720	9	217,400	6	115,650	4	106,000	4	92,368	2	41,600	7	154,000	4	85,620	6	74,613	4	60,000	4	60,000	4	60,000		
Battleships, first class <sup>2</sup> . . . . .	42	617,500	21	254,712	5	20,273	4	12,900	20	286,005	13	191,694	2	9,086	2	10,380	9	122,250	8	85,700	6	41,700	10	78,520	3	11,483	3	7,050		
Coast-defense vessels <sup>3</sup> . . . . .	5	96,850	4	90,800	2	41,637	3	72,650	2	15,400	2	9,086	2	29,200	4	110,100	2	63,600	2	7,680	6	12,410	2	7,050	2	7,050	2	7,050		
Armored cruisers * (Invincible type) . . . . .	34	406,800	8	94,245	12	137,445	5	43,800	3	24,022	8	30,303	3	15,000	2	6,385	2	7,680	6	12,410	2	7,050	2	7,050	2	7,050	2	7,050		
Armored cruisers . . . . .	14	146,500	10	50,040	24	98,180	6	32,650	14	49,541	5	21,250	8	30,303	3	15,000	2	6,385	2	7,680	6	12,410	2	7,050	2	7,050	2	7,050		
Cruisers above 6,000 tons <sup>4</sup> . . . . .	42	200,400	10	50,040	24	98,180	6	32,650	14	49,541	5	21,250	8	30,303	3	15,000	2	6,385	2	7,680	6	12,410	2	7,050	2	7,050	2	7,050		
Cruisers 6,000 to 3,600 tons <sup>5</sup> . . . . .	23	49,541	15	34,525	11	13,631	2	4,100	2	4,100	3	9,170	3	9,170	2	1,200	2	1,200	11	13,260	22	7,587	10	6,320	14	5,162	6	4,010		
Cruisers 3,000 to 1,000 tons <sup>6</sup> . . . . .	192	108,700	31	26,580	102	58,414	12	9,000	36	21,500	14	12,500	12	26,782	13	9,170	38	22,608	2	1,200	29	3,722	16	7,111	28	3,700	43	6,800		
Torpedo-boat destroyers . . . . .	19	12,710	22	3,790	28	4,802	200	19,165	66	22,304	15	9,182	10	1,726	1	650	31	6,648	8	4,800	9	1,822	11	3,500	6	1,600	6	1,600		
Torpedo boats . . . . .	65	20,720	14	4,140	10	5,000	20	4,450	18	8,800	66	22,304	15	9,182	10	1,726	1	650	31	6,648	8	4,800	9	1,822	11	3,500	6	1,600		
Submarines . . . . .																														
Total tons built and total tons building . . . . .	1,896,100	428,430	745,699	337,500	767,111	327,335	650,705	110,720	421,369	168,760	297,819	176,060	203,812	108,310	167,093	90,460														
Total tons built and building . . . . .	2,000,000	1,087,269	885,000	741,425	690,119	473,819	312,122	267,465																						

\* Battleships have a main battery of all big guns.  
 \* Battleships, first class, are those of (about) 10,000 tons.  
 \* Includes a number of battleships and 1 monitor.  
 \* Armored cruisers for the purpose of torpedo defense.  
 \* expense of carrying a few more to main battery.  
 \* 1. Actual weight included.  
 \* 2. All armaments weigh less than 100 tons.  
 \* 3. Actual weight included to secure extreme speed.

1. Includes or more in caliber.  
 2. More tons displacement.  
 3. Standard not capable of taking their place in line of battle with the battleships. They have an increase of speed at the time in armor protection. Also called battleship cruisers.  
 4. In this table, classed according to displacement as cruisers. Cruisers are considered as cruisers to which battery and protection is added. It has been omitted because all cruisers except the smallest and oldest now have protection decks.  
 5. Torpedo boats of less than 50 tons.

\* 11 - Vessels of less than 50 tons are considered as completed. The full-tonnage vessels are not included in the table. These are 21 vessels of 1,000 tons or more, but have not yet been completed and are not included in the table. These are actually battleship cruisers, although authorized as cruisers. Includes torpedo boats, torpedo boat cruisers, converted merchant vessels, etc. Vessels of less than 50 tons are considered as completed. Torpedo boats of less than 50 tons.



TABLE II.

## RELATIVE ORDER OF WARSHIP TONNAGE.

[March 1, 1911.]

At present.		As would be the case were vessels building now completed.	
Nation.	Tonnage.	Nation.	Tonnage.
Great Britain.....	1, 841, 762	Great Britain.....	2, 278, 642
United States.....	712, 767	Germany.....	965, 045
Germany.....	667, 295	United States.....	849, 501
France.....	552, 656	France.....	726, 411
Japan.....	433, 091	Japan.....	522, 571
Russia.....	305, 713	Russia.....	401, 463
Italy.....	219, 959	Italy.....	328, 289
Austria.....	153, 938	Austria.....	209, 899

# TABLE III.

## PERSONNEL.

[March 1, 1911.]

Rank.	England.	France.	Germany.	Japan.	United States.
Admirals of the fleet.....	4	.....	2	1	( <sup>1</sup> )
Admirals.....	12	.....	5	5	.....
Vice admirals.....	22	15	11	23	.....
Rear admirals.....	55	30	19	33	<sup>2</sup> 26
Captains and commanders...	627	340	297	271	197
Other line officers.....	2, 321	1, 509	1, 596	1, 591	1, 053
Midshipmen at sea.....	450	54	398	182	277
Engineer officers.....	969	505	433	576	.....
Medical officers.....	593	<sup>3</sup> 416	286	<sup>4</sup> 341	313
Pay officers.....	667	216	230	302	200
Chaplains.....	139	.....	.....	.....	23
Warrant officers.....	2, 238	<sup>5</sup> 2, 098	2, 452	1, 138	659
Enlisted men.....	101, 985	50, 762	52, 824	42, 042	47, 500
Marine officers.....	449	.....	50	.....	334
Enlisted men (marines).....	<sup>6</sup> 19, 983	.....	1, 363	.....	9, 521
Total.....	130, 514	55, 945	59, 966	46, 505	60, 103

<sup>1</sup> The Admiral of the Navy.

<sup>2</sup> The United States has now, temporarily, as extra numbers, due to promotion for war service, 8 flag officers, 12 captains, 5 commanders, 9 lieutenant commanders, and 4 lieutenants.

<sup>3</sup> Includes pharmacists and apothecaries.

<sup>4</sup> Includes 20 pharmaceutical officers.

<sup>5</sup> Includes adjutants, maitres, and premier maitres of all branches.

<sup>6</sup> Includes 3,120 men of coast guard.

TABLE IV.  
VESSELS BUILT.

[March 1, 1911.]

	Battleships, Dread- nought type. <sup>1</sup>	Battleships. <sup>2</sup>	Armored cruisers, Invincible type. <sup>3</sup>	Armored cruisers.	Cruisers. <sup>4</sup>	Destroyers.	Torpedo boats.	Submarines.	Coast-defense ves- sels. <sup>5</sup>
England.....	8	47	4	34	<sup>6</sup> 81	<sup>6</sup> 176	59	68	.....
Germany.....	4	22	1	9	41	93	27	8	6
United States.....	4	25	.....	12	30	30	28	18	5
France.....	.....	17	.....	21	12	65	225	60	3
Japan.....	.....	13	2	11	16	57	59	9	3
Russia.....	.....	9	.....	7	11	97	45	31	2
Italy.....	.....	9	.....	10	7	23	58	7	.....
Austria.....	.....	5	.....	3	6	14	47	6	6

<sup>1</sup> Battleships having a main battery of all big guns (11 inches or more in caliber).

<sup>2</sup> Battleships, first class, are those of (about) 10,000 tons or more displacement.

<sup>3</sup> Armored cruisers having guns of largest caliber in main battery and capable of taking their place in line of battle with the battleships. They have an increase of speed at the expense of carrying fewer guns in main battery, and a decrease in armor protection; also called battleship cruisers.

<sup>4</sup> Includes all unarmored cruising vessels above 1,000 tons displacement.

<sup>5</sup> Includes smaller battleships and monitors. No more vessels of this class are being proposed or built by the great powers.

<sup>6</sup> Includes vessels of colonies.

TABLE V.  
VESSELS BUILDING OR AUTHORIZED.

[March 1, 1911.]

	Battleships, Dread- nought type.	Battleships.	Armored cruisers, Invincible type.	Armored cruisers.	Cruisers.	Destroyers.	Torpedo boats.	Submarines.
England <sup>1</sup> .....	10	.....	<sup>2</sup> 5	.....	<sup>2</sup> 16	<sup>2</sup> 39	.....	<sup>2</sup> 18
Germany <sup>3</sup> .....	9	.....	3	.....	4	16	.....	<sup>4</sup> 12
United States.....	6	.....	.....	.....	.....	12	.....	16
France.....	2	5	.....	1	.....	20	2	28
Japan <sup>5</sup> .....	2	.....	1	.....	5	4	.....	4
Russia.....	4	.....	.....	.....	.....	3	.....	2
Italy.....	4	.....	.....	.....	3	10	50	13
Austria.....	<sup>6</sup> 2	1	.....	.....	.....	.....	.....	6

<sup>1</sup> England has no continuing shipbuilding policy, but usually lays down each year 5 armored ships, with a proportional number of smaller vessels.

<sup>2</sup> Includes vessels of colonies.

<sup>3</sup> Germany has a continuing shipbuilding program, governed by a fleet law authorized by the Reichstag. For 1911 there are authorized 3 battleships, 1 armored cruiser, 2 cruisers, 12 destroyers. Eventual strength to consist of 38 battleships, 20 armored cruisers, 38 cruisers, 144 destroyers.

<sup>4</sup> \$3,570,000 authorized for experiments and further construction.

<sup>5</sup> One more battleship, 2 more armored cruisers, 1 more cruiser, and several destroyers and submarines authorized to be laid down and completed by 1916.

<sup>6</sup> Building under agreement with navy department before authorization by Delegations.

NOTE.—The following vessels are not included in the tables: Those over 20 years old, unless they have been reconstructed and rearmed since 1900; transports, colliers, repair ships, converted merchant vessels, or any other auxiliaries; vessels of less than 1,000 tons, except torpedo craft; torpedo craft of less than 50 tons.

Table V includes vessels authorized but not yet laid down, as well as those actually under construction.

TABLE VI.

BATTLESHIPS AND ARMORED CRUISERS PRIOR TO THE DREADNOUGHT  
TYPE.

[January 1, 1911.]

## GREAT BRITAIN.

	Built.			Building.			
	Num- ber.	Tons.	Guns, 8-inch and larger.	Num- ber.	Tons.	Guns, 8-inch and larger.	Author- ized.
Battleships.....	49	714, 750	$\left\{ \begin{array}{l} 32 \text{ } 13'' .5 \\ 152 \text{ } 12'' \\ 12 \text{ } 10'' \end{array} \right\}$	.....	.....	.....	.....
Armored cruisers.....	34	406, 800	$\left\{ \begin{array}{l} 52 \text{ } 9'' .2 \\ 68 \text{ } 9'' .2 \end{array} \right\}$	.....	.....	.....	.....

## GERMANY.

Battleships.....	22	262, 616	$\left\{ \begin{array}{l} 52 \text{ } 11'' \\ 40 \text{ } 9'' .5 \end{array} \right\}$	.....	.....	.....	.....
Armored cruisers.....	9	94, 245	$\left\{ \begin{array}{l} 6 \text{ } 9'' .5 \\ 44 \text{ } 8'' .3 \end{array} \right\}$	.....	.....	.....	.....

## UNITED STATES.

Battleships.....	25	334, 146	$\left\{ \begin{array}{l} 32 \text{ } 13'' \\ 68 \text{ } 12'' \\ 144 \text{ } 8'' \end{array} \right\}$	.....	.....	.....	.....
Armored cruisers.....	12	157, 445	$\left\{ \begin{array}{l} 16 \text{ } 10'' \\ 36 \text{ } 8'' \end{array} \right\}$	.....	.....	.....	.....

TABLE VI—Continued.

BATTLESHIPS AND ARMORED CRUISERS PRIOR TO THE DREADNOUGHT  
TYPE—Continued.

## FRANCE.

	Built.			Building.			
	Num- ber.	Tons.	Guns, 8-inch and larger.	Num- ber.	Tons.	Guns, 8-inch and larger.	Author- ized.
Battleships.....	16	203, 687	$\left\{ \begin{array}{l} 3 \text{ } 13''.4 \\ 50 \text{ } 12'' \\ 10 \text{ } 10''.8 \end{array} \right\}$				
Armored cruisers.....	21	197, 291	( <sup>1</sup> )	1	13, 779	( <sup>1</sup> )	

## JAPAN.

Battleships.....	11	152, 548	$\left\{ \begin{array}{l} 36 \text{ } 12'' \\ 6 \text{ } 8'' \end{array} \right\}$				
Armored cruisers.....	9	81, 400	$\left\{ \begin{array}{l} 32 \text{ } 8'' \\ 1 \text{ } 10'' \end{array} \right\}$				

## ITALY.

Battleships.....	9	109, 000	$\left\{ \begin{array}{l} 4 \text{ } 13''.5 \\ 16 \text{ } 12'' \\ 8 \text{ } 10'' \\ 56 \text{ } 8'' \end{array} \right\}$				
Armored cruisers.....	10	78, 520	$\left\{ \begin{array}{l} 19 \text{ } 10'' \\ 6 \text{ } 8'' \end{array} \right\}$				

<sup>1</sup> 7.6-inch, largest caliber carried.

TABLE VII.

**DREADNOUGHT TYPE OF BATTLESHIPS, WITH CONTEMPORARIES OF OVER 18,000 TONS DISPLACEMENT, AND ARMORED CRUISERS OF INVINCIBLE TYPE.**

**GREAT BRITAIN.**

	Built.			Building.			Number authorized up to January, 1911, but not yet building.
	Number.	Tons.	Guns.	Number.	Tons.	Guns.	
Battleships.....	8	151,350	80 12"	10	226,500	$\left\{ \begin{array}{l} 20 \ 12'' \\ 80 \ 13'' \cdot 5 \end{array} \right\}$	.....
Armored cruisers.	4	70,500	32 12"	.....	.....	.....	.....

**GERMANY.**

Battleships.....	4	74,408	48 11"	<sup>1</sup> 9	193,500	108 12"	.....
Armored cruisers.	1	19,000	8 11"	3	66,000	24 12"	.....

**UNITED STATES.**

Battleships.....	4	72,000	36 12"	5	122,650	$\left\{ \begin{array}{l} 44 \ 12'' \\ 10 \ 14'' \end{array} \right\}$	1
Armored cruisers.	.....	.....	.....	.....	.....	.....	.....

**FRANCE.**

Battleships.....	1	18,030	$\left\{ \begin{array}{l} 4 \ 12'' \\ 12 \ 9'' \cdot 4 \end{array} \right\}$	7	136,334	$\left\{ \begin{array}{l} 44 \ 12'' \\ 60 \ 9'' \cdot 4 \end{array} \right\}$	.....
Armored cruisers.	.....	.....	.....	.....	.....	.....	.....

**JAPAN.**

Battleships.....	2	39,150	$\left\{ \begin{array}{l} 8 \ 12'' \\ 24 \ 10'' \end{array} \right\}$	2	41,600	24 12"	.....
Armored cruisers.	4	56,700	$\left\{ \begin{array}{l} 16 \ 12'' \\ 16 \ 8'' \end{array} \right\}$	1	27,500	8 13'' $\cdot$ 5	.....

<sup>1</sup> Some of these are supposed to carry 14-inch guns.

TABLE VII—Continued.

**DREADNOUGHT TYPE OF BATTLESHIPS, WITH CONTEMPORARIES OF OVER 18,000 TONS DISPLACEMENT, AND ARMORED CRUISERS OF INVINCIBLE TYPE—Continued.**

**RUSSIA.**

	Built.			Building.			Number authorized up to January, 1911, but not yet building.
	Number.	Tons.	Guns.	Number.	Tons.	Guns.	
Battleships.....	.....	.....	.....	4	92,000	48 12''	.....
Armored cruisers.....	.....	.....	.....	.....	.....	.....	.....

**ITALY.**

Battleships.....	.....	.....	.....	4	84,600	51 12''	.....
Armored cruisers.....	.....	.....	.....	.....	.....	.....	.....

**AUSTRIA.**

Battleships.....	.....	.....	.....	2	40,000	24 12''	.....
Armored cruisers.....	.....	.....	.....	.....	.....	.....	.....

**BRAZIL.**

Battleships.....	2	38,500	24 12''	1	32,000	12 14''	.....
Armored cruisers.....	.....	.....	.....	.....	.....	.....	.....

**ARGENTINA.**

Battleships.....	.....	.....	.....	2	56,000	24 12''	.....
Armored cruisers.....	.....	.....	.....	.....	.....	.....	.....

NOTE.—Vessels under construction are all to be completed by end of 1914.

**CHILE.**

Bids for the construction of two battleships to be opened in April, 1911.



TABLE VIII.

BATTLESHIPS, ARMORED CRUISERS, AND CRUISERS (SCOUTS) OF THE  
FIVE PRINCIPAL NAVAL POWERS, LAUNCHED 1905-1910.

## GREAT BRITAIN.

Year.	Bat- tle- ships.	Tonnage.	Arm- ored cruis- ers.	Tonnage.	Cruis- ers.	Tonnage.	Total.	Total tonnage.
1905.....	2	32,700	4	54,200	1	2,895	7	89,795
1906.....	3	50,900	2	29,200	.....	.....	5	80,100
1907.....	3	55,800	4	66,350	.....	.....	7	122,150
1908.....	2	38,500	.....	.....	1	3,300	3	41,800
1909.....	2	39,150	1	18,750	6	25,920	9	83,820
1910.....	3	63,000	1	26,350	4	18,660	8	108,010
Total.....	15	280,050	12	194,850	12	50,775	39	525,675

## GERMANY.

1905.....	2	25,964	.....	.....	3	9,750	5	35,714
1906.....	2	25,964	2	22,832	2	6,790	6	55,586
1907.....	.....	.....	.....	.....	2	6,988	2	6,988
1908.....	4	74,408	1	15,550	2	7,824	7	97,782
1909.....	3	64,500	1	19,000	3	12,843	7	96,343
1910.....	1	21,500	1	22,000	.....	.....	2	43,500
Total.....	12	212,336	5	79,382	12	44,195	29	335,913

## UNITED STATES.

1905.....	5	74,000	1	14,500	1	9,700	7	98,200
1906.....	1	16,000	2	29,000	.....	.....	3	45,000
1907.....	.....	.....	.....	.....	3	11,250	3	11,250
1908.....	3	52,000	.....	.....	.....	.....	3	52,000
1909.....	2	41,825	.....	.....	.....	.....	2	41,825
1910.....	1	21,825	.....	.....	.....	.....	1	21,825
Total.....	12	205,650	3	43,500	4	20,950	19	270,100

TABLE VIII—Continued.

**BATTLESHIPS, ARMORED CRUISERS, AND CRUISERS (SCOUTS) OF THE  
FIVE PRINCIPAL NAVAL POWERS, LAUNCHED 1905-1910—Continued.**

**JAPAN.**

Year.	Bat- tle- ships.	Tonnage.	Arm- ored cruis- ers.	Tonnage.	Cruis- ers.	Tonnage.	Total.	Total tonnage.
1905.....	2	32,350	1	13,750	.....	.....	3	46,100
1906.....	1	19,350	1	13,750	.....	.....	2	33,100
1907.....	1	19,800	2	29,200	2	5,380	5	54,380
1908.....	.....	.....	.....	.....	1	1,350	1	1,350
1909.....	.....	.....	.....	.....	.....	.....	.....	.....
1910.....	1	20,800	.....	.....	.....	.....	1	20,800
Total.....	5	92,300	4	56,700	3	6,730	12	155,730

**FRANCE.**

1905.....	1	14,636	1	12,370	.....	.....	2	27,006
1906.....	.....	.....	1	13,428	.....	.....	1	13,428
1907.....	1	14,636	1	13,779	.....	.....	2	28,415
1908.....	.....	.....	1	13,779	.....	.....	1	13,779
1909.....	5	90,145	.....	.....	.....	.....	5	90,145
1910.....	1	18,029	.....	.....	.....	.....	1	18,029
Total.....	8	137,446	4	53,356	.....	.....	12	190,802

**RUSSIA.**

1905.....	.....	.....	.....	.....	.....	.....	.....	.....
1906.....	3	42,000	3	31,000	.....	.....	6	73,000
1907.....	1	16,600	1	8,000	.....	.....	2	24,600
1908.....	.....	.....	.....	.....	.....	.....	.....	.....
1909.....	.....	.....	.....	.....	.....	.....	.....	.....
1910.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	4	58,600	4	39,000	.....	.....	8	97,600

TABLE IX.

BATTLESHIPS AND ARMORED CRUISERS RECENTLY COMPLETED OR APPROACHING COMPLETION.

BATTLESHIPS.

	De- signed speed.	Displace- ment.	Length.	Beam.	Draft.	Comple- ment.	Battery.	Torpedo tubes.	Maxi- mum thickness armor belt.	Date launched.	Date of comple- tion.
Bellerophon (Great Brit- ain).	21	18,600	490	82	27	800	$\left\{ \begin{array}{l} 10\ 12'' \\ 16\ 4'' \end{array} \right.$	5	11	July, 1907	Feb., 1909
Vanguard (Great Britain).	21	19,250	500	84	27	800	$\left\{ \begin{array}{l} 10\ 12'' \\ 20\ 4'' \end{array} \right.$	3	9 $\frac{3}{4}$	Feb., 1909	Mar., 1910
Neptune (Great Britain)...	21	19,900	510	85	27	.....	$\left\{ \begin{array}{l} 10\ 12'' \\ 16\ 4'' \end{array} \right.$	3	12	Sept., 1909	Jan., 1911
Orion (Great Britain).....	21	22,500	545	88 $\frac{1}{2}$	27 $\frac{1}{2}$	.....	$\left\{ \begin{array}{l} 10\ 13.5'' \\ 20\ 4'' \end{array} \right.$	3	12	Aug., 1910	1911
Nassau (Germany).....	19	18,602	452	89	26 $\frac{1}{2}$	950	$\left\{ \begin{array}{l} 12\ 11'' \\ 12\ 6'' \end{array} \right.$	6	9 $\frac{3}{4}$	Mar., 1908	Oct., 1909
Oldenburg (Germany).....	21	21,500	515	92	27	980	$\left\{ \begin{array}{l} 12\ 12'' \\ 14\ 6'' \end{array} \right.$	6	9 $\frac{3}{4}$	June, 1910	1911
North Dakota (United States).	21	20,000	510	85	27	940	$\left\{ \begin{array}{l} 10\ 12'' \\ 14\ 5'' \end{array} \right.$	2	11	Nov., 1908	Apr., 1910
Utah (United States).....	20 $\frac{3}{4}$	21,825	510	88	28 $\frac{1}{2}$	950	$\left\{ \begin{array}{l} 10\ 12'' \\ 16\ 5'' \end{array} \right.$	2	11	Dec., 1909	1911

TABLE IX—Continued.

BATTLESHIPS AND ARMORED CRUISERS RECENTLY COMPLETED OR APPROACHING COMPLETION—Continued.

## BATTLESHIPS—Continued.

	De- signed speed.	Displace- ment.	Length.	Beam.	Draft.	Comple- ment.	Battery.	Torpedo tubes.	Maxi- mum thickness armor belt.	Date launched.	Date of comple- tion.
			<i>Fect.</i>	<i>Fect.</i>	<i>Fect.</i>				<i>Inches.</i>		
Arkansas (United States).	20½	26,000	554	93	28½	1,040	{ 12 12" 21 5"	2	11	Jan., 1911	
Vérité (France) .....	18	14,636	439	79½	26½	768	{ 4 12" 10 7.6"	2	11	May, 1907	Jan., 1908
Voltaire (France) .....	19¼	18,029	476	84	27½	680	{ 4 12" 12 9.5"	4	9.8	Jan., 1909	1911
Aki (Japan) .....	20	19,800	460	84	27½	932	{ 4 12" 12 10"	5	9	Apr., 1907	1911
Kawachi (Japan) .....	20½	20,800	500	84	27½	1,000	{ 12 12" 10 6"	5	9	Oct., 1910	
Dante Alighieri (Italy) .....	23	18,600	520	87	27½	1,030	{ 12 12" 20 4.7"	3	9	Aug., 1910	
Minas Geraes (Brazil) .....	21	19,250	500	84	25	.....	{ 12 12" 22 4.7"	.....	9	Sept., 1908	Jan., 1910

## BATTLESHIPS AND ARMORED CRUISERS RECENTLY COMPLETED OR APPROACHING COMPLETION—Continued.

## ARMORED CRUISERS.

Indomitable (Great Britain).	25	17, 250	530	78½	26	750	{ 8 12" 16 4"	5	7	Mar., 1907	June, 1908
Indefatigable (Great Britain.)	25	18, 750	555	80	26½	760	{ 8 12" 16 4"	2	7	Oct., 1909	Feb., 1911
Lion (Great Britain).....	29	26, 350	660	88½	27½	.....	{ 8 13.5" 16 4"	2	9	Aug., 1910	1911
Waldeck Rousseau (France).	23	13, 779	515	70½	27	740	14 7.6"	2	7	Mar., 1908	1911
Blücher (Germany).....	24	15, 550	499	80	26½	820	{ 12 8.3" 8 6"	4	7	Apr., 1908	Oct., 1909
Von der Tann (Germany).	26	19, 000	561	87	27	900	{ 8 11" 10 6"	4	7	Mar., 1909	Sept., 1910
Moltke (Germany).....	26	22, 000	590	90	27	.....	{ 8 12" 12 6"	4	10	Apr., 1910	1911
Kurama (Japan).....	22	14, 600	450	75½	26	850	{ 4 12" 8 8"	3	7	Oct., 1907	1911
Montana (United States)...	22	14, 500	502	73	25	950	{ 4 10" 16 6"	4	5	Dec., 1906	July, 1908

TABLE X.

TIME REQUIRED TO BUILD SOME RECENT BATTLESHIPS OF THE FIVE  
PRINCIPAL NAVAL POWERS.

## GREAT BRITAIN.

Names.	Ton- nage.	Date of contract or order.	Keel laid.	Launched.	Commis- sioned.
Bellerophon .....	18, 600	<sup>1</sup> Sept., 1906	Dec., 1906	July, 1907	Feb., 1909
Superb .....	18, 600	Dec., 1906	Feb., 1907	Nov. 1907	May, 1909
Collingwood .....	19, 250	<sup>1</sup> Oct. 1907	Feb., 1908	Nov. 1908	Apr., 1910
Vanguard .....	19, 250	Mar., 1908	Apr., 1908	Feb., 1909	Mar., 1910
Neptune .....	19, 900	<sup>1</sup> Nov., 1908	Jan., 1909	Sept., 1909	Jan., 1911

## GERMANY.

Nassau .....	18, 602	<sup>1</sup> May, 1906	Aug., 1907	Mar., 1908	Oct., 1909
Westfalen .....	18, 602	Oct., 1906	Aug., 1907	July, 1908	Nov., 1909
Posen .....	18, 602	Apr., 1907	July, 1907	Dec., 1908	May, 1910
Rheinland .....	18, 602	Apr., 1907	July, 1907	Sept., 1908	Apr., 1910

## UNITED STATES.

South Carolina .....	16, 000	July, 1906	Dec., 1906	July, 1908	Mar., 1910
Michigan .....	16, 000	July, 1906	Dec., 1906	May, 1908	Jan., 1910
Delaware .....	20, 000	Aug., 1907	Nov., 1907	Feb., 1909	Apr., 1910
North Dakota .....	20, 000	Aug., 1907	Dec., 1907	Nov., 1908	Apr., 1910

## FRANCE.

Vérité .....	14, 636	May, 1902	1903	May, 1907	Jan., 1908
Voltaire .....	18, 029	Dec., 1906	June, 1907	Jan., 1909	1911
Danton .....	18, 029	<sup>1</sup> May, 1906	Jan., 1908	July, 1909	Feb., 1911

## JAPAN.

Satsuma .....	19, 350	<sup>1</sup> 1904	May, 1905	Nov., 1906	Apr., 1910
Aki .....	19, 800	<sup>1</sup> 1905	Mar., 1906	Apr., 1907	<sup>2</sup> Mar., 1911

<sup>1</sup> Built in Government dockyards.<sup>2</sup> Trials in December, 1910.

TABLE XI.

BATTLESHIPS AND ARMORED CRUISERS <sup>1</sup> AUTHORIZED, 1906-1910.

Country.	1906		1907		1908		1909		1910	
	B. S.	A.C. <sup>1</sup>	B. S.	A.C. <sup>1</sup>	B. S.	A.C. <sup>1</sup>	B. S.	A.C. <sup>1</sup>	B. S.	A.C. <sup>1</sup>
Great Britain...	3	.....	3	.....	1	1	6	<sup>2</sup> 4	4	1
Germany.....	2	<sup>3</sup> 1	2	1	3	1	3	1	3	1
United States...	1	.....	1	.....	2	.....	2	.....	2	.....
Japan.....	( <sup>4</sup> )	.....	2	2	.....	.....	.....	.....	.....	1
France.....	6	.....	.....	.....	.....	.....	.....	.....	2	.....

<sup>1</sup> Armored cruisers able to take position in line of battle.<sup>2</sup> Includes two authorized by colonies.<sup>3</sup> The Blucher of 15,550 tons.<sup>4</sup> Since the Russo-Japanese War Japan has remodeled and placed in service the Russian prizes, which are now named: Battleships, Tango, Sagami, Suwo, Hizen, and Iwami; coast-defense vessels, Iki, Mishima, and Okinoshima, and armored cruiser Aso.

TABLE XII.

## NAVAL EXPENDITURES.

Year.	England.	Germany.	United States.	Japan.	France.
1906.....	\$167, 525, 238	\$58, 405, 200	\$104, 508, 719	\$19, 231, 945	\$60, 025, 405
1907.....	159, 758, 177	69, 210, 400	99, 693, 298	41, 076, 145	57, 394, 167
1908.....	160, 074, 573	80, 229, 800	129, 972, 971	40, 312, 533	58, 941, 096
1909.....	<sup>1</sup> 167, 780, 705	<sup>2</sup> 97, 722, 800	136, 935, 199	35, 870, 061	61, 064, 096
1910.....	<sup>1</sup> 194, 000, 502	<sup>2</sup> 103, 268, 200	131, 404, 640	37, 542, 184	69, 031, 276

<sup>1</sup> Estimated.<sup>2</sup> Authorized.

## SHIPBUILDING PROGRAMS.

### GERMANY.

Year.	Battle-ships.	Armored cruisers.	Small cruisers.
1908.....	3	1	2
1909.....	3	1	2
1910.....	3	1	2
1911.....	3	1	2
1912.....	1	1	2
1913.....	1	1	2
1914.....	1	1	2
1915.....	1	1	2
1916.....	1	1	2
1917.....	1	1	2

In addition to this program Germany annually provides for 12 torpedo-boat destroyers and a number of submarines. Her object is to increase, by the year 1917, her total strength to 38 battleships, 20 armored cruisers, 38 small cruisers—all to be less than 20 years old—and 144 torpedo craft.

### GREAT BRITAIN.

Great Britain has no fixed program, but her policy is to maintain the two-power standard, viz, a preponderance of 10 per cent over the combined strengths of the navies of the two next strongest naval powers.

### UNITED STATES.

United States has no fixed program.

### FRANCE.

France has no fixed program.

### JAPAN.

Japan usually provides for a shipbuilding program which extends over a period of years. Four programs are now in existence and another has been authorized by the Diet.



## BRAZIL.

In December, 1904, Brazil provided for a shipbuilding program, which has since been modified (put into execution in 1907) and now includes—

3 battleships.  
2 scout cruisers.  
10 torpedo-boat destroyers.

All of the above vessels except one battleship have been completed and delivered to Brazil.

## ARGENTINA.

Argentina has provided for a program of 2 large battleships and 12 destroyers, and authorized increasing the program, if required, to 3 large battleships and 16 destroyers.

## SPAIN.

Spain, in 1908, provided a program for the upbuilding of her navy, as follows:

	Tons, each.
3 battleships of about.....	15,000
3 torpedo-boat destroyers.....	350
24 torpedo boats.....	180
4 gunboats of about.....	1,000

## AUSTRIA.

Austria has adopted a program extending to the year 1917.

## ITALY.

Four battleships are being built at present and it is reported that 4 more are contemplated.

## SHIPBUILDING PROGRAMS, 1911-1912.

[Authorized up to April, 1911.]

### GREAT BRITAIN.

5 large armored ships (4 battleships, 1 battleship cruiser).	6 submarines.
3 protected cruisers.	2 river gunboats.
1 unarmored cruiser.	1 depot ship for destroyers.
20 destroyers.	1 hospital ship.

### GERMANY.

3 battleships.	12 destroyers.
1 battleship cruiser.	\$3,570,000 for submarines.
2 protected cruisers.	3 surveying steamers.

### UNITED STATES.

2 battleships.	1 gunboat.
8 destroyers.	1 river gunboat.
4 submarines.	1 submarine tender.
2 fleet colliers.	

### FRANCE.

2 battleships.

### JAPAN.

A new program has been authorized which contemplates expenditure of \$40,000,000 in six years to increase the displacements of 1 battleship and 3 battleship cruisers already authorized, and to build in addition 1 battleship and 1 battleship cruiser.

### AUSTRIA.

The following program, to be completed by 1916, has been authorized:

4 battleships (including 2 now under construction).	6 destroyers.
3 scout cruisers.	12 torpedo boats.
	6 submarines.

## REFERENCE BOOKS.

PROBABLY MAY BE FOUND IN A PUBLIC LIBRARY.

*Navy Yearbook* (Pulsifer).—Giving annual appropriations and various acts relating to the Navy, beginning 1883; alphabetical list of all United States vessels, with data on same; list of vessels of the principal navies of the world, etc. Printed as a congressional document.

*Fighting ships* (Jane).—Giving a detail description of all fighting ships and showing silhouettes, plans, and elevations of ships, description of uniforms, lists of naval bases, etc.

*The Naval Pocketbook* (Clowes).—Giving detail description of individual ships, lists, and numbers, data concerning guns, etc.

*The Naval Annual* (Brassey).—Giving a series of essays on the navies of the world, lists, and numbers, and plan and elevation of principal ships.

For recommendations to Congress and reports of the various bureaus, see annual reports of the Secretary of the Navy.

The tables of "War-ship tonnage" and "Sea strength" (Tables I to V, ante) of the principal naval powers are published annually by the Office of Naval Intelligence.

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